

## Exhibit 300: Capital Asset Plan and Business Case Summary

### Part I: Summary Information And Justification (All Capital Assets)

#### Section A: Overview (All Capital Assets)

**1. Date of Submission:** 2010-03-17 14:30:23

**2. Agency:** 021

**3. Bureau:** 12

**4. Name of this Investment:** FAAXX013: Aviation Surface Weather Observation Network (ASWON)

**5. Unique Project (Investment) Identifier:** 021-12-01-21-01-1030-00

**6. What kind of investment will this be in FY 2011?:** Mixed Life Cycle

- Planning
- Full Acquisition
- Operations and Maintenance
- Mixed Life Cycle
- Multi-Agency Collaboration

**7. What was the first budget year this investment was submitted to OMB? \***

**8. Provide a brief summary and justification for this investment, including a brief description of how this closes in part or in whole an identified agency performance gap; this description may include links to relevant information which should include relevant GAO reports, and links to relevant findings of independent audits.**

Aviation Surface Weather Observation Network (ASWON), a collection of weather equipment that supports the FAA and National Weather Service (NWS) modernization by automating surface weather observations. ASWON consists of 8 projects: ASOS Pre-Planned Product Improvement (ASOS P3I), Automated Weather Sensor System (AWSS), Stand-Alone Weather Sensors (SAWS), Automated Weather Observing System (AWOS), Automated Surface Observing System (ASOS), ASOS/AWOS Data Acquisition System (ADAS), Model F420 anemometer (F420), Digital Altimeter Setting Indicator (DASI) barometer (Funded by O&M.) However, this document will specifically address only the ASOS, ASOS P3I, AWSS, and SAWS. The remaining 4 systems (F420, ADAS, AWOS, and DASI) are legacy systems and are no longer managed by ATO-T. ASWON's role is to provide real time, accurate surface weather conditions to pilots, air traffic controllers, other aviation users, and the national weather data network. ASWON weather systems provide weather information at approximately 800 facilities for information only through the internet and telephone lines. It supports the NAS reliability goal of 99.7% and supports the reduction of NAS weather requirements. It fills 3 performance gaps: 1) The automated weather equipment is a cost-beneficial alternative to human weather observers (HWO). The 20 year cost of the automated systems is \$900K versus \$3M for HWOs. 2) ASOS and AWSS provide wind speed, direction, altimeter; visibility; cloud height precipitation identification; temperature; and dew point. ASOS P3I will implement 5 upgrades to ASOS processor, dewpoint sensor, ice-free wind sensor, enhanced precipitation identifier, and ceilometer. 3) SAWS, a backup to ASOS at service Level C facilities, provides temperature, dewpoint, altimeter, wind speed, direction & gusts. SAWS can be used as a replacement for the F420 and DASI. The cost benefits for ASWON include passenger value of time, aircraft operating direct costs, and safety benefits. ASWON requested a reassemble decision from the JRC for large EVM cost and schedule variances that grew due to funding cuts in the last 3 fiscal years and received approval on 6/29/06. In FY 2010, the ASOS P3I program will procure the first 2 In FY 2010, the ASOS P3I program will procure the first 290 Enhanced Precipitation (EPI) sensors and will continue installation of the Ceilometer Replacement. The DME portion of the program is expected to be completed in 2012. SAWS and AWSS were completed in FY07.

- a. Provide here the date of any approved rebaselining within the past year, the date for the most recent (or planned) alternatives analysis for this investment, and whether this investment has a**

risk management plan and risk register.

**9. Did the Agency's Executive/Investment Committee approve this request? \***

a. If "yes," what was the date of this approval? \*

**10. Contact information of Program/Project Manager?**

- **Name:** \*
- **Phone Number:** \*
- **Email:** \*

**11. What project management qualifications does the Project Manager have? (per FAC-P/PM)? \***

- Project manager has been validated according to FAC-PMPM or DAWIA criteria as qualified for this investment.
- Project manager qualifications according to FAC-P/PM or DAWIA criteria is under review for this investment.
- Project manager assigned to investment, but does not meet requirements according to FAC-P/OM or DAWIA criteria.
- Project manager assigned but qualification status review has not yet started.
- No project manager has yet been assigned to this investment.

**12. If this investment is a financial management system, then please fill out the following as reported in the most recent financial systems inventory (FMSI):**

| Financial management system name(s) | System acronym | Unique Project Identifier (UPI) number |
|-------------------------------------|----------------|--|
| *                                   | *              | *                                      |

**a. If this investment is a financial management system AND the investment is part of the core financial system then select the primary FFMIA compliance area that this investment addresses (choose only one): \***

- computer system security requirement;
- internal control system requirement;
- core financial system requirement according to FSIO standards;
- Federal accounting standard;
- U.S. Government Standard General Ledger at the Transaction Level;
- this is a core financial system, but does not address a FFMIA compliance area;
- Not a core financial system; does not need to comply with FFMIA

## Section B: Summary of Funding (Budget Authority for Capital Assets)

1.

| <b>Table 1: SUMMARY OF FUNDING FOR PROJECT PHASES</b><br><b>(REPORTED IN MILLIONS)</b><br>(Estimates for BY+1 and beyond are for planning purposes only and do not represent budget decisions) |                 |         |         |         |           |           |           |                 |       |
|--|-----------------|---------|---------|---------|-----------|-----------|-----------|-----------------|-------|
|  | PY1 and earlier | PY 2009 | CY 2010 | BY 2011 | BY+1 2012 | BY+2 2013 | BY+3 2014 | BY+4 and beyond | Total |
| Planning:  | *               | *       | *       | *       | *         | *         | *         | *               | *     |
| Acquisition:   | *               | *       | *       | *       | *         | *         | *         | *               | *     |
| Subtotal Planning & Acquisition:   | *               | *       | *       | *       | *         | *         | *         | *               | *     |
| Operations & Maintenance:  | *               | *       | *       | *       | *         | *         | *         | *               | *     |
| Disposition Costs (optional):  | *               | *       | *       | *       | *         | *         | *         | *               | *     |
| SUBTOTAL:  | *               | *       | *       | *       | *         | *         | *         | *               | *     |
| Government FTE Costs should not be included in the amounts provided above.   |                 |         |         |         |           |           |           |                 |       |
| Government FTE Costs   | *               | *       | *       | *       | *         | *         | *         | *               | *     |
| Number of FTE represented by Costs:  | *               | *       | *       | *       | *         | *         | *         | *               | *     |
| TOTAL(including FTE costs)   | *               | *       | *       | *       | *         | *         | *         | *               | *     |

2. If the summary of funding has changed from the FY 2010 President's Budget request, briefly explain those changes:

\*

## Section C: Acquisition/Contract Strategy (All Capital Assets)

1.

Table 1: Contracts/Task Orders Table

| Contract or Task Order Number | Type of Contract/Task Order (In accordance with FAR Part 16) | Has the contract been awarded (Y/N) | If so what is the date of the award? If not, what is the planned award date? | Start date of Contract/Task Order | End date of Contract/Task Order | Total Value of Contract/Task Order (M) | Is this an Interagency Acquisition? (Y/N) | Is it performance based? (Y/N) | Competitively awarded? (Y/N) | What, if any, alternative financing option is being used? (ESPC, UESC, EUL, N/A) | Is EVM in the contract? (Y/N) |
|-------------------------------|--|-------------------------------------|--|-----------------------------------|---------------------------------|--|---|--------------------------------|------------------------------|--|-------------------------------|
| DTFAWA-03-C-00071             | Costs Reimbursement  | Y                                   | 2004-03-01   | 2004-03-01                        | 2011-12-31                      | \$5.4                                  | *   | *                              | *                            | *  | *                             |
| DTFAWA-05-D-00026             | Cost Reimbursement   | Y                                   | 2008-10-01   | 2008-10-01                        | 2009-10-01                      | \$0.2                                  | *   | *                              | *                            | *  | *                             |
| IA DTFA-WA-06-X-0002          | Inter Agency Agreement Between FAA & NWS                     | Y                                   | 2006-06-06   | 2006-06-06                        | 2010-09-30                      | \$22.0                                 | *   | *                              | *                            | *  | *                             |
| IA DTFA-WA-06-X-0002          | Inter Agency Agreement Between FAA & NWS                     | Y                                   | 2006-06-06   | 2006-06-06                        | 2010-09-30                      | \$60.0                                 | *   | *                              | *                            | *  | *                             |

2. If earned value is not required or will not be a contract requirement for any of the contracts or task orders above, explain why:

\*

3. Is there an acquisition plan which reflects the requirements of FAR Subpart 7.1 and has been approved in accordance with agency requirements? \*

a.If "yes," what is the date? \*

## Section D: Performance Information (All Capital Assets)

Table 1: Performance Information Table

| Fiscal Year | Strategic Goal(s) Supported | Measurement Area | Measurement Grouping | Measurement Indicator   | Baseline  | Target   | Actual Results  |
|-------------|-----------------------------|------------------|----------------------|---|---|--|---|
| 2005        | Mobility                    | *                | *                    | Customer Impact or Burden/weather-related delays (# of delayed flights) | Baseline in 1Q05 for FY02-FY04 the delays associated with marginal weather conditions                         | Reduce delays by 2% in marginal weather conditions from improved precipitation and wind accuracy   | Unmeasurable. Weather delays are 1% of total aviation operations.   |
| 2005        | Mobility                    | *                | *                    | Increase Capacity / Weather data availability                           | Requirement for ASOS Availability = 99%   | Increase to 99.1%  | 99.40%  |
| 2005        | Mobility                    | *                | *                    | Implement weather condition detection of drizzle and ice pellets        | Ability to detect rain and snow is available  | Implement detection of drizzle, freezing drizzle, and ice pellets  | Only detection of rain and snow have been implemented to date.  |
| 2005        | Mobility                    | *                | *                    | Data Reliability and Quality (replace aging F420 wind sensors)          | Install 122 SAWS-equipped facilities.   | At a minimum of 51 of all SAWS-equipped facilities, AT managers will assign SAWS as the controllers' primary source of operational winds and altimeter setting data. | 101 SAWS commissioned to date. Providing a back up capability to ASOS at those sites.   |
| 2005        | Mobility                    | *                | *                    | Compliance (# of ASOS with 3 second wind averaging)                     | Wind measurement is a 5-sec average   | Improve wind measurement accuracy by upgrading to sensor that takes 3-second average   | 101 of 571 ice free wind sensors have been installed.   |
| 2005        | Mobility                    | *                | *                    | # of displays used per controller per operator position                 | Current multi-display ATC work station  | Reduce complexity by one display monitor by routing WARP data to ACE-IDS display   | No longer an ASWON goal due to the Rebaseline that JRC approved on 6/29/06..  |
| 2005        | Mobility                    | *                | *                    | Productivity (reduced air traffic controller labor to augment ASOS)     | At Service Level C facilities, air traffic controllers augment surface weather observations provided by ASOS. | At SAWS-equipped facilities, reduce the instances of controller failure to perform manual augmentation of missing ASOS sensor data to under 5%.                      | 101 SAWS commissioned to date, providing an automated back up capability to ASOS at those sites and thus reducing air traffic controller labor. |
| 2005        | Mobility                    | *                | *                    | Operations and Maintenance  | \$1313 per dew point sensor per   | Reduce maintenance   | Achieved maintenance  |

Table 1: Performance Information Table

| Fiscal Year | Strategic Goal(s) Supported | Measurement Area | Measurement Grouping | Measurement Indicator   | Baseline  | Target  | Actual Results  |
|-------------|-----------------------------|------------------|----------------------|---|---|---|---|
|             |                             |                  |                      | Costs   | year to maintain  | costs to: \$150 per dew point sensor per year   | costs of dew point sensors per year.  |
| 2005        | Mobility                    | *                | *                    | Operations and Maintenance Costs  | \$6.5M per year of telecommunications services used NAS-wide to distribute data to remotely located display heads that are addressable by ACE-IDS | Through introduction of ACE-IDS network, realize an overall savings of \$4 million in FY05  | No longer an ASWON goal due to the Rebaseline that JRC approved on 6/29/06.   |
| 2005        | Mobility                    | *                | *                    | System Availability   | Backup automated surface weather observation provided by SAWS has an availability of 99%  | Do not fall below SAWS availability of 99%.   | 99.70%  |
| 2006        | Mobility                    | *                | *                    | Customer Impact or Burden/weather-related delays (# of delayed flights)             | Baseline in 1Q05 for FY02-FY04 the delays associated with marginal weather conditions   | Reduce delays by 2% in marginal weather conditions from improved precipitation and wind accuracy.   | Unmeasurable. Weather delays are 1% of total aviation operations.   |
| 2006        | Mobility                    | *                | *                    | Increase Capacity / Weather data availability                                       | Requirement for Availability = 99%  | Sustain increase to 99.1%   | ASOS availability is 98.2%  |
| 2006        | Mobility                    | *                | *                    | Implement weather condition detection of drizzle, freezing drizzle, and ice pellets | Ability to detect rain and snow is available  | Implement detection of drizzle, freezing drizzle, and ice pellets   | Only detection of rain and snow have been implemented to date.  |
| 2006        | Mobility                    | *                | *                    | Data Reliability and Quality (replace aging F420 wind sensors)                      | Install 122 SAWS-equipped facilities.   | At a minimum of 51 SAWS-equipped facilities, AT managers will assign SAWS as the controllers' primary source of operational winds and altimeter setting data. | 122 SAWS commissioned to date, providing an automated back up capability to ASOS at those sites and thus reducing air traffic controller labor. |
| 2006        | Mobility                    | *                | *                    | Compliance  | Wind measurement is a 5-sec average   | Improve wind measurement accuracy by upgrading to sensor that takes 3-second average  | 290 of 571 ice free wind sensors have been installed.   |
| 2006        | Mobility                    | *                | *                    | # of displays used per  | Current multi-display   | Reduce complexity by  | No longer an ASWON goal.  |

Table 1: Performance Information Table

| Fiscal Year | Strategic Goal(s) Supported | Measurement Area | Measurement Grouping | Measurement Indicator   | Baseline  | Target  | Actual Results  |
|-------------|-----------------------------|------------------|----------------------|---|---|---|---|
|             |                             |                  |                      | controller per operator position  | ATC work station  | one display monitor by routing WARP data to ACE-IDS display   | JRC approved Rebaseline on 6/29/06.   |
| 2006        | Mobility                    | *                | *                    | Productivity  | At Service Level C facilities, air traffic controllers augment surface weather observations provided by ASOS.                                     | At SAWS-equipped facilities, reduce the instances of controller failure to perform manual augmentation of missing ASOS sensor data to under 5%. | 122 SAWS commissioned to date, providing an automated back up capability to ASOS at those sites and thus reducing air traffic controller labor. |
| 2006        | Mobility                    | *                | *                    | Operations and Maintenance Costs  | \$1313 per dew point sensor per year to maintain  | Reduce maintenance costs to: \$150 per dew point sensor per year  | Achieved maintenance costs of dew point sensors per year.   |
| 2006        | Mobility                    | *                | *                    | Operations and Maintenance Costs  | \$6.5M per year of telecommunications services used NAS-wide to distribute data to remotely located display heads that are addressable by ACE-IDS | Through introduction of ACE-IDS network, realize an overall savings of \$4 million in FY05  | No longer an ASWON goal. JRC approved Rebaseline on 6/29/06.  |
| 2006        | Mobility                    | *                | *                    | System Availability   | Backup automated surface weather observation provided by SAWS has an availability of 99%  | Do not fall below SAWS availability of 99%.   | SAWS availability is 99.7%  |
| 2007        | Mobility                    | *                | *                    | Customer Impact or Burden/weather-related delays (# of delayed flights)             | Baseline in 1Q05 for FY02-FY04 the delays associated with marginal weather conditions   | Reduce delays by 2% in marginal weather conditions from improved precipitation and wind accuracy.   | Unmeasurable . Weather delays are 1% of total aviation operations.  |
| 2007        | Mobility                    | *                | *                    | Increase Capacity / Weather data availability                                       | Requirement for Availability = 99%  | Increase to 99.1%   | ASOS availability is 98.2%  |
| 2007        | Mobility                    | *                | *                    | Implement weather condition detection of drizzle, freezing drizzle, and ice pellets | Ability to detect rain and snow is available  | Implement detection of drizzle, freezing drizzle, and ice pellets   | Only detection of rain and snow have been implemented to date.  |
| 2007        | Mobility                    | *                | *                    | Data Reliability and Quality  | Install 122 SAWS-equipped   | At a minimum of 51  | 122 SAWS commissioned   |

Table 1: Performance Information Table

| Fiscal Year | Strategic Goal(s) Supported | Measurement Area | Measurement Grouping | Measurement Indicator                                   | Baseline  | Target  | Actual Results  |
|-------------|-----------------------------|------------------|----------------------|---|---|---|---|
|             |                             |                  |                      | (replace aging F420 wind sensors)                       | d facilities.   | SAWS-equipped facilities, AT managers will assign SAWS as the controllers' primary source of operational winds and altimeter setting data.      | to date, providing an automated back up capability to ASOS at those sites and thus reducing air traffic controller labor.                       |
| 2007        | Mobility                    | *                | *                    | Compliance  | Wind measurement is a 5-sec average   | Improve wind measurement accuracy by upgrading to sensor that takes 3-second average  | 451 of 571 ice free wind sensors have been installed.   |
| 2007        | Mobility                    | *                | *                    | # of displays used per controller per operator position | Current multi-display ATC work station  | Reduce complexity by one display monitor by routing WARP data to ACE-IDS display  | No longer an ASWON goal. JRC approved Rebaseline on 6/29/06.  |
| 2007        | Mobility                    | *                | *                    | Productivity  | At Service Level C facilities, air traffic controllers augment surface weather observations provided by ASOS.                                     | At SAWS-equipped facilities, reduce the instances of controller failure to perform manual augmentation of missing ASOS sensor data to under 5%. | 122 SAWS commissioned to date, providing an automated back up capability to ASOS at those sites and thus reducing air traffic controller labor. |
| 2007        | Mobility                    | *                | *                    | Operations and Maintenance Costs                        | \$1313 per dew point sensor per year to maintain  | Reduce maintenance costs to: \$150 per dew point sensor per year  | Achieved maintenance costs of dew point sensors per year.   |
| 2007        | Mobility                    | *                | *                    | Operations and Maintenance Costs                        | \$6.5M per year of telecommunications services used NAS-wide to distribute data to remotely located display heads that are addressable by ACE-IDS | Through introduction of ACE-IDS network, realize an overall savings of \$4 million in FY05  | No longer an ASWON goal. JRC approved Rebaseline on 6/29/06.  |
| 2007        | Mobility                    | *                | *                    | System Availability                                     | Backup automated surface weather observation provided by SAWS has an availability of 99%  | Do not fall below SAWS availability of 99%.   | SAWS availability is 99.7%  |
| 2008        | Mobility                    | *                | *                    | Customer Impact or                                      | Baseline in 1Q05 for  | Reduce delays by 2% in  | Goal unmeasurable   |



Table 1: Performance Information Table

| Fiscal Year | Strategic Goal(s) Supported | Measurement Area | Measurement Grouping | Measurement Indicator   | Baseline  | Target  | Actual Results  |
|-------------|-----------------------------|------------------|----------------------|---|---|---|---|
|             |                             |                  |                      | Burden/weather-related delays (# of delayed flights)                                | FY02-FY04 the delays associated with marginal weather conditions  | marginal weather conditions from improved precipitation and wind accuracy.  |   |
| 2008        | Mobility                    | *                | *                    | Increase Capacity / Weather data availability                                       | Requirement for Availability = 99%  | Increase to 99.1%   | 98.5%   |
| 2008        | Mobility                    | *                | *                    | Implement weather condition detection of drizzle, freezing drizzle, and ice pellets | Ability to detect rain and snow is available  | Implement detection of drizzle, freezing drizzle, and ice pellets   |   |
| 2008        | Mobility                    | *                | *                    | Data Reliability and Quality (replace aging F420 wind sensors)                      | Install 122 SAWS-equipped facilities.   | At a minimum of 51 SAWS-equipped facilities, AT managers will assign SAWS as the controllers' primary source of operational winds and altimeter setting data. | 122 SAWS commissioned to date, providing an automated back up capability to ASOS at those sites and thus reducing air traffic controller labor.             |
| 2008        | Mobility                    | *                | *                    | Compliance  | Wind measurement is a 5-sec average   | Improve wind measurement accuracy by upgrading to sensor that takes 3-second average  | 480 of 571 ice free wind sensors have been installed.   |
| 2008        | Mobility                    | *                | *                    | # of displays used per controller per operator position                             | Current multi-display ATC work station  | Reduce complexity by one display monitor by routing WARP data to ACE-IDS display  | No longer an ASWON goal. JRC approved Rebaseline on 6/29/06.  |
| 2008        | Mobility                    | *                | *                    | Productivity  | At Service Level C facilities, air traffic controllers augment surface weather observations provided by ASOS. | At SAWS-equipped facilities, reduce the instances of controller failure to perform manual augmentation of missing ASOS sensor data to under 5%.               | Unmeasured. 122 SAWS commissioned to date, providing an automated back up capability to ASOS at those sites and thus reducing air traffic controller labor. |
| 2008        | Mobility                    | *                | *                    | Operations and Maintenance Costs  | \$1313 per dew point sensor per year to maintain  | Reduce maintenance costs to: \$150 per dew point sensor per year  | Achieved maintenance costs of dew point sensors per year.   |
| 2008        | Mobility                    | *                | *                    | Operations and  | \$6.5M per year   | Through   | No longer an  |

Table 1: Performance Information Table

| Fiscal Year | Strategic Goal(s) Supported | Measurement Area | Measurement Grouping | Measurement Indicator   | Baseline  | Target  | Actual Results   |
|-------------|-----------------------------|------------------|----------------------|---|---|---|--|
|             |                             |                  |                      | Maintenance Costs   | of telecommunications services used NAS-wide to distribute data to remotely located display heads that are addressable by ACE-IDS | introduction of ACE-IDS network, realize an overall savings of \$4 million in FY05  | ASWON goal. JRC approved Rebaseline on 6/29/06.  |
| 2008        | Mobility                    | *                | *                    | System Availability   | Backup automated surface weather observation provided by SAWS has an availability of 99%  | Do not fall below SAWS availability of 99%.   | SAWS availability is 99%   |
| 2009        | Mobility                    | *                | *                    | Customer Impact or Burden/weather-related delays (# of delayed flights)             | Baseline in 1Q05 for FY02-FY04 the delays associated with marginal weather conditions   | Reduce delays by 2% in marginal weather conditions from improved precipitation and wind accuracy.   | Goal cannot be measured and will be replaced.  |
| 2009        | Mobility                    | *                | *                    | Increase Capacity / Weather data availability                                       | Requirement for Availability = 99%  | Increase to 99.1%   | NOT MET YET  |
| 2009        | Mobility                    | *                | *                    | Implement weather condition detection of drizzle, freezing drizzle, and ice pellets | Ability to detect rain and snow is available  | Implement detection of drizzle, freezing drizzle, and ice pellets   | Goal cannot be met until FY11.   |
| 2009        | Mobility                    | *                | *                    | Data Reliability and Quality (replace aging F420 wind sensors)                      | Install 122 SAWS-equipped facilities.   | At a minimum of 51 SAWS-equipped facilities, AT managers will assign SAWS as the controllers' primary source of operational winds and altimeter setting data. | 122 SAWS commissioned to date, providing an automated back up capability to ASOS at those sites and thus reducing air traffic controller labor.. |
| 2009        | Mobility                    | *                | *                    | Compliance  | Wind measurement is a 5-sec average   | Improve wind measurement accuracy by upgrading to sensor that takes 3-second average  | 571 of 571 ice free wind sensors have been installed.  |
| 2009        | Mobility                    | *                | *                    | # of displays used per controller per operator position                             | Current multi-display ATC work station  | Reduce complexity by one display monitor by routing WARP data to  | No longer an ASWON goal due to the Rebaseline that JRC approved on 6/29/06.  |

Table 1: Performance Information Table

| Fiscal Year | Strategic Goal(s) Supported | Measurement Area | Measurement Grouping | Measurement Indicator   | Baseline  | Target  | Actual Results  |
|-------------|-----------------------------|------------------|----------------------|---|---|---|---|
|             |                             |                  |                      |   |   | ACE-IDS display   |   |
| 2009        | Mobility                    | *                | *                    | Productivity  | At Service Level C facilities, air traffic controllers augment surface weather observations provided by ASOS.                                     | At SAWS-equipped facilities, reduce the instances of controller failure to perform manual augmentation of missing ASOS sensor data to under 5%. | NOT MET YET   |
| 2009        | Mobility                    | *                | *                    | Operations and Maintenance Costs  | \$1313 per dew point sensor per year to maintain  | Reduce maintenance costs to: \$150 per dew point sensor per year  | NOT MET YET   |
| 2009        | Mobility                    | *                | *                    | Operations and Maintenance Costs  | \$6.5M per year of telecommunications services used NAS-wide to distribute data to remotely located display heads that are addressable by ACE-IDS | Through introduction of ACE-IDS network, realize an overall savings of \$4 million in FY05  | No longer an ASWON goal due to the Rebaseline that JRC approved on 6/29/06. |
| 2009        | Mobility                    | *                | *                    | System Availability   | Backup automated surface weather observation provided by SAWS has an availability of 99%  | Do not fall below SAWS availability of 99%.   | NOT MET YET   |
| 2010        | Mobility                    | *                | *                    | Customer Impact or Burden/weather-related delays (# of delayed flights) | Baseline in 1Q05 for FY02-FY04 the delays associated with marginal weather conditions   | Reduce delays by 2% in marginal weather conditions from improved precipitation and wind accuracy.   | This goal cannot be measured and will be deleted.                           |
| 2010        | Mobility                    | *                | *                    | Weather data availability   | Requirement for ASOS Availability = 99%   | Increase availability of ASOS observations to 99.1%   | The results for this performance measure will be available Oct 2010.        |
| 2010        | Mobility                    | *                | *                    | Implement ceilometer replacement sensor                                 | Ceilometer replacement is not part of ASOS sensor baseline.   | Implement ceilometer replacement at 10% of the ASOS locations.  | The results for this performance measure will be available Oct 2010         |
| 2010        | Mobility                    | *                | *                    | Implement weather condition detection of drizzle and ice                | ASOS cannot detect drizzle or ice pellets.  | Implement detection of drizzle and ice pellets  | This goal has been overcome by events and will be deleted.                  |

Table 1: Performance Information Table

| Fiscal Year | Strategic Goal(s) Supported | Measurement Area | Measurement Grouping | Measurement Indicator  | Baseline  | Target  | Actual Results   |
|-------------|-----------------------------|------------------|----------------------|--|---|---|--|
|             |                             |                  |                      | pellets  |   |   |  |
| 2010        | Mobility                    | *                | *                    | Data Reliability and Quality (replace aging F420 wind sensors) | Install 122 SAWS-equipped facilities.   | At a minimum of 51 SAWS-equipped facilities, AT managers will assign SAWS as the controllers' primary source of operational winds and altimeter setting data. | This goal has been overcome by events and will be deleted.   |
| 2010        | Mobility                    | *                | *                    | Compliance   | Wind measurement is a 5-sec average   | Improve wind measurement accuracy by upgrading to sensor that takes 3-second average  | This goal has been overcome by events and will be deleted.   |
| 2010        | Mobility                    | *                | *                    | # of displays used per controller per operator position        | Current multi-display ATC workstation   | Reduce complexity by one display monitor by routing WARP data to ACE-IDS display  | No longer an ASWON goal due to the Rebaseline that JRC approved on 6/29/06. This goal will be deleted. |
| 2010        | Mobility                    | *                | *                    | Productivity   | The percentage of missing ASOS observation parameters at Service Level C facilities without SAWS equipment.                                       | At SAWS-equipped facilities, maintain the instances of controller failure to perform manual augmentation of missing ASOS sensor data to under 5%.             | The results for this performance measure will be available Oct 2010.                                   |
| 2010        | Mobility                    | *                | *                    | Operations and Maintenance Costs                               | \$1313 per dew point sensor per year to maintain  | Reduce maintenance costs to: \$150 per dew point sensor per year  | This goal has been overcome by events and will be deleted.   |
| 2010        | Mobility                    | *                | *                    | Operations and Maintenance Costs                               | \$6.5M per year of telecommunications services used NAS-wide to distribute data to remotely located display heads that are addressable by ACE-IDS | Through introduction of ACE-IDS network, realize an overall savings of \$4 million in FY05  | No longer an ASWON goal due to the Rebaseline that JRC approved on 6/29/06. This goal will be deleted. |
| 2010        | Mobility                    | *                | *                    | System Availability  | Backup automated surface weather observation provided by SAWS has an availability of  | Do not fall below SAWS availability of 99%.   | The results for this performance measure will be available Oct 2010.                                   |

Table 1: Performance Information Table

| Fiscal Year | Strategic Goal(s) Supported | Measurement Area | Measurement Grouping | Measurement Indicator   | Baseline   | Target  | Actual Results   |
|-------------|-----------------------------|------------------|----------------------|---|--|---|--|
| 99%         |                             |                  |                      |   |  |   |  |
| 2011        | Mobility                    | *                | *                    | Customer Impact or Burden/weather-related delays (# of delayed flights) | Baseline in 1Q05 for FY02-FY04 the delays associated with marginal weather conditions            | Reduce delays by 2% in marginal weather conditions from improved precipitation and wind accuracy.   | This goal cannot be measured and will be deleted.  |
| 2011        | Mobility                    | *                | *                    | Weather data availability   | Requirement for ASOS Availability = 99%  | Increase availability of ASOS observations to 99.1%   | The results for this performance measure will be available Oct 2011                                    |
| 2011        | Mobility                    | *                | *                    | Implement ceilometer replacement sensor                                 | Ceilometer replacement is not part of ASOS sensor baseline.                                      | Implement ceilometer replacement at 30% of the ASOS locations.  | The results for this performance measure will be available Oct 2011                                    |
| 2011        | Mobility                    | *                | *                    | Implement weather condition detection of drizzle and ice pellets        | ASOS cannot detect drizzle or ice pellets.   | Implement detection of drizzle and ice pellets at 10% of the ASOS sites.  | The results for this performance measure will be available Oct 2011                                    |
| 2011        | Mobility                    | *                | *                    | Data Reliability and Quality (replace aging F420 wind sensors)          | Install 122 SAWS-equipped facilities.  | At a minimum of 51 SAWS-equipped facilities, AT managers will assign SAWS as the controllers' primary source of operational winds and altimeter setting data. | This goal has been overcome by events and will be deleted  |
| 2011        | Mobility                    | *                | *                    | Compliance  | Wind measurement is a 5-sec average  | Improve wind measurement accuracy by upgrading to sensor that takes 3-second average  | This goal has been overcome by events and will be deleted.   |
| 2011        | Mobility                    | *                | *                    | # of displays used per controller per operator position                 | Current multi-display ATC work station   | Reduce complexity by one display monitor by routing WARP data to ACE-IDS display  | No longer an ASWON goal due to the Rebaseline that JRC approved on 6/29/06. This goal will be deleted. |
| 2011        | Mobility                    | *                | *                    | Productivity  | The percentage of missing ASOS observation parameters at Service Level C facilities without SAWS | At SAWS-equipped facilities, maintain the instances of controller failure to perform manual   | The results for this performance measure will be available Oct 2011                                    |

Table 1: Performance Information Table

| Fiscal Year | Strategic Goal(s) Supported | Measurement Area | Measurement Grouping | Measurement Indicator   | Baseline  | Target   | Actual Results   |
|-------------|-----------------------------|------------------|----------------------|---|---|--|--|
|             |                             |                  |                      |   | equipment.  | augmentation of missing ASOS sensor data to under 5%.  |  |
| 2011        | Mobility                    | *                | *                    | Operations and Maintenance Costs  | \$1313 per dew point sensor per year to maintain  | Reduce maintenance costs to: \$150 per dew point sensor per year   | This goal has been overcome by events and will be deleted.   |
| 2011        | Mobility                    | *                | *                    | Operations and Maintenance Costs  | \$6.5M per year of telecommunications services used NAS-wide to distribute data to remotely located display heads that are addressable by ACE-IDS | Through introduction of ACE-IDS network, realize an overall savings of \$4 million in FY05                   | No longer an ASWON goal due to the Rebaseline that JRC approved on 6/29/06. This goal will be deleted. |
| 2011        | Mobility                    | *                | *                    | System Availability   | Backup automated surface weather observation provided by SAWS has an availability of 99%  | Do not fall below SAWS availability of 99%.  | The results for this performance measure will be available Oct 2011                                    |
| 2012        | Mobility                    | *                | *                    | Customer Impact or Burden/weather-related delays (# of delayed flights) | Baseline in 1Q05 for FY02-FY04 the delays associated with marginal weather conditions   | Reduce delays by 2% in marginal weather conditions from improved precipitation and wind accuracy.            | This goal cannot be measured and will be deleted.  |
| 2012        | Mobility                    | *                | *                    | Weather data availability   | Requirement for ASOS Availability = 99%   | Increase availability of ASOS observations to 99.2%  | The results for this performance measure will be available Oct 2012                                    |
| 2012        | Mobility                    | *                | *                    | Implement ceilometer replacement sensor                                 | Ceilometer replacement is not part of ASOS sensor baseline.   | Implement ceilometer replacement at 75% of the ASOS locations.   | The results for this performance measure will be available Oct 2012                                    |
| 2012        | Mobility                    | *                | *                    | Implement weather condition detection of drizzle and ice pellets        | ASOS cannot detect drizzle or ice pellets.  | Implement detection of drizzle and ice pellets at 30% of the ASOS sites.                                     | The results for this performance measure will be available Oct 2012                                    |
| 2012        | Mobility                    | *                | *                    | Data Reliability and Quality (replace aging F420 wind sensors)          | Install 122 SAWS-equipped facilities.   | At a minimum of 51 SAWS-equipped facilities, AT managers will assign SAWS as the controllers' primary source | This goal has been overcome by events and will be deleted  |

Table 1: Performance Information Table

| Fiscal Year | Strategic Goal(s) Supported | Measurement Area | Measurement Grouping | Measurement Indicator   | Baseline  | Target  | Actual Results   |
|-------------|-----------------------------|------------------|----------------------|---|---|---|--|
|             |                             |                  |                      |   |   | of operational winds and altimeter setting data.  |  |
| 2012        | Mobility                    | *                | *                    | Compliance  | Wind measurement is a 5-sec average   | Improve wind measurement accuracy by upgrading to sensor that takes 3-second average  | This goal has been overcome by events and will be deleted.   |
| 2012        | Mobility                    | *                | *                    | # of displays used per controller per operator position                 | Current multi-display ATC work station  | Reduce complexity by one display monitor by routing WARP data to ACE-IDS display  | No longer an ASWON goal due to the Rebaseline that JRC approved on 6/29/06. This goal will be deleted. |
| 2012        | Mobility                    | *                | *                    | Productivity  | The percentage of missing ASOS observation parameters at Service Level C facilities without SAWS equipment.                                       | At SAWS-equipped facilities, maintain the instances of controller failure to perform manual augmentation of missing ASOS sensor data to under 5%. | The results for this performance measure will be available Oct 2012                                    |
| 2012        | Mobility                    | *                | *                    | Operations and Maintenance Costs  | \$1313 per dew point sensor per year to maintain  | Reduce maintenance costs to: \$150 per dew point sensor per year  | This goal has been overcome by events and will be deleted.   |
| 2012        | Mobility                    | *                | *                    | Operations and Maintenance Costs  | \$6.5M per year of telecommunications services used NAS-wide to distribute data to remotely located display heads that are addressable by ACE-IDS | Through introduction of ACE-IDS network, realize an overall savings of \$4 million in FY05  | No longer an ASWON goal due to the Rebaseline that JRC approved on 6/29/06. This goal will be deleted. |
| 2012        | Mobility                    | *                | *                    | System Availability   | Backup automated surface weather observation provided by SAWS has an availability of 99%  | Do not fall below SAWS availability of 99%.   | The results for this performance measure will be available Oct 2012                                    |
| 2013        | Mobility                    | *                | *                    | Customer Impact or Burden/weather-related delays (# of delayed flights) | Baseline in 1Q05 for FY02-FY04 the delays associated with marginal weather conditions   | Reduce delays by 2% in marginal weather conditions from improved precipitation and wind accuracy.   | This goal cannot be measured and will be deleted.  |

Table 1: Performance Information Table

| Fiscal Year | Strategic Goal(s) Supported | Measurement Area | Measurement Grouping | Measurement Indicator  | Baseline  | Target  | Actual Results   |
|-------------|-----------------------------|------------------|----------------------|--|---|---|--|
| 2013        | Mobility                    | *                | *                    | Weather data availability  | Requirement for ASOS Availability = 99%   | Increase availability of ASOS observations to 99.2%   | The results for this performance measure will be available Oct 2013                                    |
| 2013        | Mobility                    | *                | *                    | Implement ceilometer replacement sensor                          | Ceilometer replacement is not part of ASOS sensor baseline.   | Implement ceilometer replacement at 90% of the ASOS locations.  | The results for this performance measure will be available Oct 2013                                    |
| 2013        | Mobility                    | *                | *                    | Implement weather condition detection of drizzle and ice pellets | ASOS cannot detect drizzle or ice pellets.  | Implement detection of drizzle and ice pellets at 50% of the ASOS sites.  | The results for this performance measure will be available Oct 2013                                    |
| 2013        | Mobility                    | *                | *                    | Data Reliability and Quality (replace aging F420 wind sensors)   | Install 122 SAWS-equipped facilities.   | At a minimum of 51 SAWS-equipped facilities, AT managers will assign SAWS as the controllers' primary source of operational winds and altimeter setting data. | This goal has been overcome by events and will be deleted  |
| 2013        | Mobility                    | *                | *                    | Compliance   | Wind measurement is a 5-sec average   | Improve wind measurement accuracy by upgrading to sensor that takes 3-second average  | This goal has been overcome by events and will be deleted.   |
| 2013        | Mobility                    | *                | *                    | # of displays used per controller per operator position          | Current multi-display ATC work station  | Reduce complexity by one display monitor by routing WARP data to ACE-IDS display  | No longer an ASWON goal due to the Rebaseline that JRC approved on 6/29/06. This goal will be deleted. |
| 2013        | Mobility                    | *                | *                    | Productivity   | The percentage of missing ASOS observation parameters at Service Level C facilities without SAWS equipment. | At SAWS-equipped facilities, maintain the instances of controller failure to perform manual augmentation of missing ASOS sensor data to under 5%.             | The results for this performance measure will be available Oct 2013                                    |
| 2013        | Mobility                    | *                | *                    | Operations and Maintenance Costs                                 | \$1313 per dew point sensor per year to maintain  | Reduce maintenance costs to: \$150 per dew point sensor per year  | This goal has been overcome by events and will be deleted.   |
| 2013        | Mobility                    | *                | *                    | Operations and   | \$6.5M per year   | Through   | No longer an   |



Table 1: Performance Information Table

| Fiscal Year | Strategic Goal(s) Supported | Measurement Area | Measurement Grouping | Measurement Indicator   | Baseline  | Target  | Actual Results  |
|-------------|-----------------------------|------------------|----------------------|---|---|---|---|
|             |                             |                  |                      | Maintenance Costs   | of telecommunications services used NAS-wide to distribute data to remotely located display heads that are addressable by ACE-IDS | introduction of ACE-IDS network, realize an overall savings of \$4 million in FY05  | ASWON goal due to the Rebaseline that JRC approved on 6/29/06. This goal will be deleted. |
| 2013        | Mobility                    | *                | *                    | System Availability   | Backup automated surface weather observation provided by SAWS has an availability of 99%  | Do not fall below SAWS availability of 99%.   | The results for this performance measure will be available Oct 2013                       |
| 2014        | Mobility                    | *                | *                    | Customer Impact or Burden/weather-related delays (# of delayed flights) | Baseline in 1Q05 for FY02-FY04 the delays associated with marginal weather conditions   | Reduce delays by 2% in marginal weather conditions from improved precipitation and wind accuracy.   | This goal cannot be measured and will be deleted.   |
| 2014        | Mobility                    | *                | *                    | Weather data availability   | Requirement for ASOS Availability = 99%   | Increase availability of ASOS observations to 99.3%   | The results for this performance measure will be available Oct 2014                       |
| 2014        | Mobility                    | *                | *                    | Implement ceilometer replacement sensor                                 | Ceilometer replacement is not part of ASOS sensor baseline.   | Implement ceilometer replacement at 100% of the ASOS locations.   | The results for this performance measure will be available Oct 2014                       |
| 2014        | Mobility                    | *                | *                    | Implement weather condition detection of drizzle and ice pellets        | ASOS cannot detect drizzle or ice pellets.  | Implement detection of drizzle and ice pellets at 75% of the ASOS sites.  | The results for this performance measure will be available Oct 2014                       |
| 2014        | Mobility                    | *                | *                    | Data Reliability and Quality (replace aging F420 wind sensors)          | Install 122 SAWS-equipped facilities.   | At a minimum of 51 SAWS-equipped facilities, AT managers will assign SAWS as the controllers' primary source of operational winds and altimeter setting data. | This goal has been overcome by events and will be deleted                                 |
| 2014        | Mobility                    | *                | *                    | Compliance  | Wind measurement is a 5-sec average   | Improve wind measurement accuracy by upgrading to sensor that takes 3-second  | This goal has been overcome by events and will be deleted.                                |

Table 1: Performance Information Table

| Fiscal Year | Strategic Goal(s) Supported | Measurement Area | Measurement Grouping | Measurement Indicator                                   | Baseline  | Target  | Actual Results   |
|-------------|-----------------------------|------------------|----------------------|---|---|---|--|
|             |                             |                  |                      |   |   | average   |  |
| 2014        | Mobility                    | *                | *                    | # of displays used per controller per operator position | Current multi-display ATC work station  | Reduce complexity by one display monitor by routing WARP data to ACE-IDS display  | No longer an ASWON goal due to the Rebaseline that JRC approved on 6/29/06. This goal will be deleted. |
| 2014        | Mobility                    | *                | *                    | Productivity  | The percentage of missing ASOS observation parameters at Service Level C facilities without SAWS equipment.                                       | At SAWS-equipped facilities, maintain the instances of controller failure to perform manual augmentation of missing ASOS sensor data to under 5%. | The results for this performance measure will be available Oct 2014                                    |
| 2014        | Mobility                    | *                | *                    | Operations and Maintenance Costs                        | \$1313 per dew point sensor per year to maintain  | Reduce maintenance costs to: \$150 per dew point sensor per year  | This goal has been overcome by events and will be deleted.   |
| 2014        | Mobility                    | *                | *                    | Operations and Maintenance Costs                        | \$6.5M per year of telecommunications services used NAS-wide to distribute data to remotely located display heads that are addressable by ACE-IDS | Through introduction of ACE-IDS network, realize an overall savings of \$4 million in FY05  | No longer an ASWON goal due to the Rebaseline that JRC approved on 6/29/06. This goal will be deleted. |
| 2014        | Mobility                    | *                | *                    | System Availability                                     | Backup automated surface weather observation provided by SAWS has an availability of 99%  | Do not fall below SAWS availability of 99%.   | The results for this performance measure will be available Oct 2014                                    |

## Part II: Planning, Acquisition And Performance Information

### Section A: Cost and Schedule Performance (All Capital Assets)

| 1. Comparison of Actual Work Completed and Actual Costs to Current Approved Baseline |                    |                   |                    |                   |                         |                        |                          |                         |
|--|--------------------|-------------------|--------------------|-------------------|-------------------------|------------------------|--------------------------|-------------------------|
| Description of Milestones  | Planned Cost (\$M) | Actual Cost (\$M) | Planned Start Date | Actual Start Date | Planned Completion Date | Actual Completion Date | Planned Percent Complete | Actual Percent Complete |
| Processor Upgrade Solution Development/ Production                                   | \$3.9              | \$3.9             | 2000-01-10         | 2000-01-10        | 2002-06-30              | 2002-06-30             | 100.00%                  | 100.00%                 |
| Processor Upgrade Solution Implementation  | \$1.0              | \$1.0             | 2002-07-02         | 2002-07-02        | 2006-04-28              | 2006-04-28             | 100.00%                  | 100.00%                 |
| Dewpoint Sensor Upgrade Solution Development/ Production                             | \$6.1              | \$6.1             | 1999-10-01         | 1999-10-01        | 2004-09-30              | 2004-09-30             | 100.00%                  | 100.00%                 |
| Dewpoint Sensor Upgrade Solution Implementation                                      | \$1.0              | \$1.0             | 2002-07-02         | 2002-07-02        | 2006-05-31              | 2006-05-31             | 100.00%                  | 100.00%                 |
| Ice-Free Wind Sensor Solution Development/ Production                                | \$4.9              | \$4.9             | 1999-10-01         | 1999-10-01        | 2006-09-30              | 2006-09-30             | 100.00%                  | 100.00%                 |
| Ice-Free Wind Sensor Solution Implementation   | \$1.0              | \$1.0             | 2003-09-11         | 2003-09-11        | 2007-09-30              | 2009-07-22             | 100.00%                  | 100.00%                 |
| Enhanced Precipitation Identifier (EPI) Solution Development/ Production             | \$6.8              | \$0.7             | 2003-05-05         | 2003-07-31        | 2009-09-30              |                        | 100.00%                  | 11.00%                  |
| EPI Solution Implementation  | *                  | *                 | 2008-01-01         |                   | 2009-09-30              |                        | 100.00%                  | 0.00%                   |
| Celiometer Solution Development/ Production  | \$21.0             | \$4.5             | 2005-01-15         | 2005-04-01        | 2012-09-30              |                        | 47.00%                   | 45.00%                  |
| Ceilometer Solution Implementation   | \$0.6              | \$0.1             | 2009-02-01         | 2009-10-20        | 2012-09-28              |                        | 23.00%                   | 7.00%                   |
| DASI Solution Development and Implementation   | \$3.5              | \$3.5             | 1985-10-01         | 1985-10-01        | 1996-09-30              | 1996-09-30             | 100.00%                  | 100.00%                 |
| AWOS   | \$65.4             | \$65.4            | 1987-10-01         | 1987-10-01        | 1996-09-30              | 1996-09-30             | 100.00%                  | 100.00%                 |

| 1. Comparison of Actual Work Completed and Actual Costs to Current Approved Baseline |                    |                   |                    |                   |                         |                        |                          |                         |
|--|--------------------|-------------------|--------------------|-------------------|-------------------------|------------------------|--------------------------|-------------------------|
| Description of Milestones  | Planned Cost (\$M) | Actual Cost (\$M) | Planned Start Date | Actual Start Date | Planned Completion Date | Actual Completion Date | Planned Percent Complete | Actual Percent Complete |
| Solution Development and   |                    |                   |                    |                   |                         |                        |                          |                         |
| ADAS Solution Development and Implementation   | \$24.7             | \$24.7            | 1989-10-01         | 1989-10-01        | 1995-09-30              | 1995-09-30             | 100.00%                  | 100.00%                 |
| ASOS Solution Development and Implementation   | \$239.2            | \$239.2           | 1990-10-01         | 1990-10-01        | 1997-09-30              | 1997-09-30             | 100.00%                  | 100.00%                 |
| SAWS Solution Development and Implementation   | \$26.3             | \$26.3            | 2000-10-01         | 2000-10-01        | 2004-09-30              | 2004-09-30             | 100.00%                  | 100.00%                 |
| AWSS Solution Development and Implementation   | \$16.2             | \$16.2            | 1998-10-01         | 1998-10-01        | 2004-09-30              | 2004-09-30             | 100.00%                  | 100.00%                 |
| O&M - FY06 and prior   | \$101.4            | \$101.4           | 2000-10-01         | 2000-10-01        | 2006-09-30              | 2006-09-30             | 100.00%                  | 100.00%                 |
| O&M - FY07   | \$29.5             | \$29.5            | 2006-10-01         | 2006-10-01        | 2007-09-30              | 2007-09-30             | 100.00%                  | 100.00%                 |
| O&M - FY08   | \$30.3             | \$30.3            | 2007-10-01         | 2007-10-01        | 2008-09-30              | 2008-09-30             | 100.00%                  | 100.00%                 |
| O&M - FY09   | \$30.9             | \$30.9            | 2008-10-01         | 2008-10-01        | 2009-09-30              | 2009-09-30             | 100.00%                  | 100.00%                 |
| O&M - FY10   | \$34.1             | \$28.4            | 2009-10-01         | 2009-10-01        | 2010-09-30              |                        | 83.00%                   | 83.00%                  |
| O&M - FY11   | *                  | *                 | 2010-10-01         |                   | 2011-09-30              |                        | 0.00%                    | 0.00%                   |
| O&M - FY12   | *                  | *                 | 2011-10-01         |                   | 2012-09-30              |                        | 0.00%                    | 0.00%                   |
| O&M - FY13   | *                  | *                 | 2012-10-01         |                   | 2013-09-30              |                        | 0.00%                    | 0.00%                   |
| O&M - FY14 and Beyond  | *                  | *                 | 2013-10-01         |                   | 2025-09-30              |                        | 0.00%                    | 0.00%                   |

\* - Indicates data is redacted.